

Product data sheet

UHV gate valve, Series 108, DN 100 (ID 4") Ordering No. 10840-JE44

Description

JIS 100 Flange

Actuator pneumatic, double acting

- with solenoid valve - with position indicator

Feedthrough **Bellows**

Technical data

 $< 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$ Leak rate Valve body

< 1 · 10⁻⁹ mbar ls⁻¹ Valve seat

1 · 10⁻¹⁰ mbar to 1.6 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.6 bar Differential pressure at opening ≤ 30 mbar 1740 Is⁻¹ Conductance (molecular flow)

Cycles until first service 50 000 (unheated and under clean conditions)

≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h) Temperature Valve Body

≤ 200 °C (Maximum values: depending - Actuator ≤ 50 °C on operating conditions and - Solenoid valve ≤ 80 °C sealing materials) - Position indicator

50 °C h⁻¹ Heating and cooling rate

Material (main components) Valve Body AISI 304 (1.4301)

> - Mechanism AISI 316L (1.4404), AISI 304 (1.4301)

- Bellows AISI 316L (1.4404, 1.4435)

Seal Bonnet metal

FKM (Viton®), vulcanized FKM (Viton®), NBR - Gate - Actuator

Mounting position any

Volume of pneumatic actuator 0.11 I / 0.0038 ft³

4 - 7 bar / 58 - 102 psiCompressed air

min. - max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

Created by: MAEM	Release date: 2013-01-16	1 of 2
Modified by:	Release date:	299100EA



Product data sheet

UHV gate valve, Series 108, DN 100 (ID 4") Ordering No. 10840-JE44

Actuation time – closing 1.2 s

- opening 1.2 s

Weight 14.5 kg / 32 lbs

Behavior in case of compressed — Valve closed valve remains closed

air pressure drop – Valve open undefined

Behavior in case of power failure — Valve closed valve remains closed

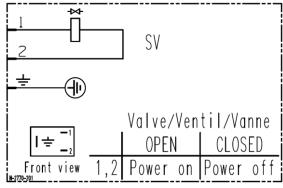
Valve open valve closes

Electrical connections

Solenoid valve

Type 4/2 way

Voltage Defined by order

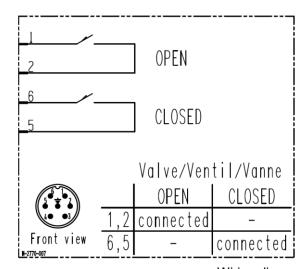


Wiring diagram

Position indicator

Type Micro switch Voltage $\leq 50 \text{ V AC / DC}$

Current max. ≤ 1.2 A



Wiring diagram

Created by: MAEM	Release date: 2013-01-16	2 of 2
Modified by:	Release date:	299100EA